

09/762641

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for Paper # 12

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 US Pre-Grant Publication Full-Text Database
 JPO Abstracts Database
 EPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

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L9

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<u>L9</u>	L8 and Sendai	7	<u>L9</u>
<u>L8</u>	L7 and M near protein\$	7	<u>L8</u>
<u>L7</u>	L1 and (non-segmented or nonsegmented or single near strand\$) and negative near strand\$	16	<u>L7</u>
<u>L6</u>	L1 and (non-segmented or nonsegmented or single near strand2\$) and negative near strand2\$	0	<u>L6</u>
<u>L5</u>	L4 and Sendai	7	<u>L5</u>
<u>L4</u>	L3 and M near protein\$	7	<u>L4</u>
<u>L3</u>	11 and dissemination	12	<u>L3</u>
<u>L2</u>	L1 and contact near3 infiltration	2	<u>L2</u>
<u>L1</u>	RNA near10 autonomous near5 replication	48	<u>L1</u>

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 12 of 12 returned.**☐ 1. Document ID: US 20020100066 A1

L3: Entry 1 of 12

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020100066

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020100066 A1

TITLE: NEGATIVE STRAND RNA VIRAL VECTOR HAVING AUTONOMOUS REPLICATION CAPABILITY

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
NAGAI, YOSHIYUKI	TOKYO		JP	
KATO, ATSUSHI	TOKYO		JP	
MURAI, FUKASHI	IBARAKI		JP	
ASAKAWA, MAKOTO	IBARAKI		JP	
SAKATA, TSUNEAKI	OSAKA		JP	
HASEGAWA, MAMORU	IBARAKI		JP	
SHIODA, TATSUO	TOKYO		JP	

US-CL-CURRENT: 800/8; 424/93.1, 435/320.1, 435/325, 435/440, 435/455, 435/69.1, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw	Desc	Image									

☐ 2. Document ID: US 20020081706 A1

L3: Entry 2 of 12

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081706

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020081706 A1

TITLE: NEGATIVE STRAND RNA VIRAL VECTOR HAVING AUTONOMOUS REPLICATION CAPABILITY

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
NAGAI, YOSHIYUKI	TOKYO		JP	
KATO, ATSUSHI	TOKYO		JP	
MURAI, FUKASHI	IBARAKI		JP	
ASAKAWA, MAKOTO	IBARAKI		JP	
SAKATA, TSUNEAKI	OSAKA		JP	
HASEGAWA, MAMORU	IBARAKI		JP	
SHIODA, TATSUO	TOKYO		JP	

US-CL-CURRENT: 435/235.1; 435/320.1, 435/325, 800/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw Desc	Image										

☐ 3. Document ID: US 6451592 B1

L3: Entry 3 of 12

File: USPT

Sep 17, 2002

US-PAT-NO: 6451592

DOCUMENT-IDENTIFIER: US 6451592 B1

TITLE: Recombinant alphavirus-based vectors with reduced inhibition of cellular macromolecular synthesis

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dubensky, Jr.; Thomas W.	Del Mar	CA		
Polo; John M.	Encinitas	CA		
Belli; Barbara A.	San Diego	CA		
Schlesinger; Sondra	St. Louis	MO		
Dryga; Sergey A.	Fort Collins	CO		
Frolov; Ilya	St. Louis	MO		

US-CL-CURRENT: 435/320.1; 435/69.1, 435/69.3, 435/69.51, 435/69.52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
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☐ 4. Document ID: US 6426196 B1

L3: Entry 4 of 12

File: USPT

Jul 30, 2002

US-PAT-NO: 6426196

DOCUMENT-IDENTIFIER: US 6426196 B1

TITLE: Alphavirus structural protein expression cassettes

DATE-ISSUED: July 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dubensky, Jr.; Thomas W.	Piedmont	CA		
Polo; John M.	Encinitas	CA		
Schlesinger; Sondra	St. Louis	MO		
Frolov; Ilya	St. Louis	MO		

US-CL-CURRENT: 435/69.1; 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 5. Document ID: US 6391632 B1

L3: Entry 5 of 12

File: USPT

May 21, 2002

US-PAT-NO: 6391632

DOCUMENT-IDENTIFIER: US 6391632 B1

TITLE: Recombinant alphavirus-based vectors with reduced inhibition of cellular macromolecular synthesis

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dubensky, Jr.; Thomas W.	Del Mon	CA		
Polo; John M.	Encinitas	CA		
Belli; Barbara A.	San Diego	CA		
Schlesinger; Sondra	St. Louis	MO		
Dryga; Sergey A.	Fort Collins	CO		
Frolov; Ilya	St. Louis	MO		

US-CL-CURRENT: 435/325; 435/457, 435/69.1, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
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☐ 6. Document ID: US 6376236 B1

L3: Entry 6 of 12

File: USPT

Apr 23, 2002

US-PAT-NO: 6376236

DOCUMENT-IDENTIFIER: US 6376236 B1

TITLE: Recombinant alphavirus particles

DATE-ISSUED: April 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dubensky, Jr.; Thomas W.	Rancho Sante Fe	CA		
Polo; John M.	San Diego	CA		
Ibanez; Carlos E.	San Diego	CA		
Driver; David A.	San Diego	CA		

US-CL-CURRENT: 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
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☐ 7. Document ID: US 6342372 B1

L3: Entry 7 of 12

File: USPT

Jan 29, 2002

US-PAT-NO: 6342372

DOCUMENT-IDENTIFIER: US 6342372 B1

TITLE: Eukaryotic layered vector initiation systems for production of recombinant proteins

DATE-ISSUED: January 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dubensky, Jr.; Thomas W.	Rancho Sante Fe	CA		
Polo; John M.	San Diego	CA		
Driver; David A.	San Diego	CA		

US-CL-CURRENT: 435/69.1; 435/455, 536/23.2, 536/23.72, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

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☐ 8. Document ID: US 6015694 A

L3: Entry 8 of 12

File: USPT

Jan 18, 2000

US-PAT-NO: 6015694

DOCUMENT-IDENTIFIER: US 6015694 A

TITLE: Method for stimulating an immune response utilizing recombinant alphavirus particles

DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dubensky, Jr.; Thomas W.	Rancho Sante Fe	CA		
Polo; John M.	San Diego	CA		
Chang; Steven M.W.	San Diego	CA		
Jolly; Douglas J.	Leucadia	CA		

US-CL-CURRENT: 435/69.3; 424/199.1, 424/204.1, 424/228.1, 424/234.1, 424/265.1, 424/274.1, 424/277.1, 536/23.5, 536/23.7, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 9. Document ID: US 6015686 A

L3: Entry 9 of 12

File: USPT

Jan 18, 2000

US-PAT-NO: 6015686

DOCUMENT-IDENTIFIER: US 6015686 A

TITLE: Eukaryotic layered vector initiation systems

DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dubensky, Jr.; Thomas W.	Rancho Sante Fe	CA		
Polo; John M.	San Diego	CA		
Jolly; Douglas J.	Leucadia	CA		
Driver; David A.	San Diego	CA		

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/410, 435/455, 435/456, 536/23.5,
536/23.72, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 10. Document ID: US 5843723 A

L3: Entry 10 of 12

File: USPT

Dec 1, 1998

US-PAT-NO: 5843723

DOCUMENT-IDENTIFIER: US 5843723 A

TITLE: Alphavirus vector constructs

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dubensky, Jr.; Thomas W.	Rancho Sante Fe	CA		
Polo; John M.	San Diego	CA		
Ibanez; Carlos E.	San Diego	CA		
Chang; Stephen M. W.	San Diego	CA		
Jolly; Douglas J.	Leucadia	CA		
Driver; David A.	San Diego	CA		
Belli; Barbara A.	San Diego	CA		

US-CL-CURRENT: 435/69.3; 435/235.1, 435/320.1, 435/325

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 11. Document ID: US 5814482 A

L3: Entry 11 of 12

File: USPT

Sep 29, 1998

US-PAT-NO: 5814482

DOCUMENT-IDENTIFIER: US 5814482 A

TITLE: Eukaryotic layered vector initiation systems

DATE-ISSUED: September 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dubensky, Jr.; Thomas W.	Rancho Sante Fe	CA	92067	
Polo; John M.	San Diego	CA	92109	
Jolly; Douglas J.	Leucadia	CA	92024	
Driver; David A.	San Diego	CA	92117	

US-CL-CURRENT: 435/69.3; 435/320.1, 536/23.1, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 12. Document ID: US 5789245 A

L3: Entry 12 of 12

File: USPT

Aug 4, 1998

US-PAT-NO: 5789245

DOCUMENT-IDENTIFIER: US 5789245 A

TITLE: Alphavirus structural protein expression cassettes

DATE-ISSUED: August 4, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dubensky, Jr.; Thomas W.	Rancho Sante Fe	CA		
Polo; John M.	San Diego	CA		
Ibanez; Carlos E.	San Diego	CA		
Chang; Stephen M. W.	San Diego	CA		
Jolly; Douglas J.	Leucadia	CA		
Driver; David A.	San Diego	CA		

US-CL-CURRENT: 435/320.1; 435/325, 435/69.1, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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11 and dissemination	12

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? s RNA (10n) autonomous (5n) replication
    2380417  RNA
    108567   AUTONOMOUS
    617422   REPLICATION
    S1      189  RNA (10N) AUTONOMOUS (5N) REPLICATION
? s s1 and dissemination
    189  S1
    117598  DISSEMINATION
    S2      0  S1 AND DISSEMINATION
? s s1 and M (n) protein
Processed 10 of 37 files ...
Processing
Processed 30 of 37 files ...
Processing
Completed processing all files
    189  S1
    4489065  M
    9462005  PROTEIN
    21766    M(N)PROTEIN
    S3      0  S1 AND M (N) PROTEIN
? s s1 and sendai
    189  S1
    26021  SENDAI
    S4      2  S1 AND SENDAI
? d s4/9/1-2
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DIALOG(R)File 357:Derwent Biotech Res.

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0252199  DBA Accession No.: 2000-06689      PATENT
RNA virus vector with deleted or inactivated propagation gene is used for
gene transfer and gene therapy - hemagglutinin gene deleted or
inactivated Sendai virus vector
AUTHOR: Asakawa M; Hasegawa M
CORPORATE SOURCE: Ibaraki, Japan.
PATENT ASSIGNEE: DNAVec-Research 2000
PATENT NUMBER: WO 200009700  PATENT DATE: 20000224  WPI ACCESSION NO.:
2000-206010  (2018)
PRIORITY APPLIC. NO.: JP 98227398  APPLIC. DATE: 19980811
NATIONAL APPLIC. NO.: WO 99JP4333  APPLIC. DATE: 19990810
LANGUAGE: Japanese
ABSTRACT: An RNA virus vector able to undergo autonomous
replication and contact infiltration, but unable to multiply, is
claimed. The vector contains a gene involved in multiplication, but
this gene is deleted or inactivated. Also claimed are: cells
transformed by the vector; a template DNA corresponding to the vector
RNA; kits containing the vector; and a method for expression of foreign

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genes in non-human mammal cells, involving transforming the cells with the vector. The new vector is used for efficient insertion of foreign genes into cells, especially for gene therapy. In an example, a plasmid pUC18-based vector containing cDNA corresponding to **Sendai** virus (plasmid pUC18/T7(+)HVJRz) was cleaved to isolate the M gene cDNA. The vector was then reconstituted with a non-coding linker sequence in place of the M gene to give plasmid pHVJ-dMEA. The plasmid is transfected into LLCMK2 cells, which are cultured to form virus particles. RNA virus vector obtained is inoculated into fertile fowl eggs. After 3 days, the virus hemagglutinin (expressed by the hemagglutinin gene) is assayed. A value below 2 is obtained, showing low virus multiplication (16 for wild type virus). (34pp)

DESCRIPTORS: **Sendai** virus expressing plasmid pUC18/T7(+)HVJRz, reduced multiplication act., matrix protein, hemagglutinin gene inactivation, deletion, pot. cell transfection, gene therapy vector RNA virus paramyxo virus cloning gene transfer protein (Vol.19, No.12)
SECTION: PHARMACEUTICALS-Clinical Genetic Techniques; GENETIC ENGINEERING AND FERMENTATION-Nucleic Acid Technology (D7,A1)

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DIALOG(R)File 357:Derwent Biotech Res.

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0212511 DBA Accession No.: 97-07632 PATENT
Reconstituted negative strand RNA virus vector with full replicative ability - **Sendai** virus vector production in mammal or bird packaging cell culture, for use in gene therapy
AUTHOR: Nagai Y; Kato A; Murai F; Asakawa M; Sakata T; Hasegawa M; Shioda T
CORPORATE SOURCE: Ibaraki, Japan.
PATENT ASSIGNEE: DNAVec-Research 1997
PATENT NUMBER: WO 9716538 PATENT DATE: 970509 WPI ACCESSION NO.: 97-272108 (9724)
PRIORITY APPLIC. NO.: JP 95308315 APPLIC. DATE: 951031
NATIONAL APPLIC. NO.: WO 96JP3068 APPLIC. DATE: 961022
LANGUAGE: JA

ABSTRACT: A new cell transformation vector consists of a virus structure defective in cell infectivity and **RNA autonomous replication**, derived from a negative-strand **RNA** virus (preferably **Sendai** virus)-lacking-M,-F-and/or-HN-protein-genes. A foreign gene may be included. The vector may be used to transform a

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host mammal or bird packaging cell culture, tissue or egg cell, containing M, F and/or HN or M, NP, P/C and/or L genes, resulting in production of reconstituted virions with full replicative ability. The system may be used for efficient production of a recombinant virus vector for use in recombinant protein production in vitro or gene therapy. In an example, a rhesus monkey kidney LLCMK2 cell culture was transformed with plasmid pGEM-L, plasmid pGEM-NP and plasmid pGEM-P, containing viral cDNAs. An HIV virus gpl20 gene was amplified by polymerase chain reaction from plasmid pN1432 and incorporated into **Sendai** virus vector plasmid pSeV18+, to give plasmid pSeVgpl20, which was used to infect CV-1 cells, resulting in production of recombinant HIV protein gpl20 in the culture supernatant. (47pp)

DESCRIPTORS: replication-defective **Sendai** virus vector, mammal, bird packaging cell culture, appl. recombinant protein prep., gene therapy paramyxo virus animal gene transfer expression (Vol.16, No.14)

SECTION: PHARMACEUTICALS-Clinical Genetic Techniques; GENETIC ENGINEERING AND FERMENTATION-Nucleic Acid Technology; CELL CULTURE-Animal Cell Culture (D7,A1,J1)

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189 S1

9697514 NON

47661 SEGMENTED

731 NON(N)SEGMENTED

S5 0 S1 AND NON (N) SEGMENTED

? s s1 and contact (n) infiltration

189 S1

1139138 CONTACT

316744 INFILTRATION

46 CONTACT(N)INFILTRATION

S6 1 S1 AND CONTACT (N) INFILTRATION

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Display 6/3/1 (Item 1 from file: 357)

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DIALOG(R)File 357:Derwent Biotech Res.

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0252199 DBA Accession No.: 2000-06689 PATENT

RNA virus vector with deleted or inactivated propagation gene is used for gene transfer and gene therapy - hemagglutinin gene deleted or inactivated Sendai virus vector

AUTHOR: Asakawa M; Hasegawa M

CORPORATE SOURCE: Ibaraki, Japan.

PATENT ASSIGNEE: DNAVec-Research 2000

PATENT NUMBER: WO 200009700 PATENT DATE: 20000224 WPI ACCESSION NO.:

2000-206010 (2018)

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PRIORITY APPLIC. NO.: JP 98227398 APPLIC. DATE: 19980811
NATIONAL APPLIC. NO.: WO 99JP4333 APPLIC. DATE: 19990810
LANGUAGE: Japanese

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? e au=asakawa, makoto

Ref	Items	Index-term
E1	289	AU=ASAKAWA, M.
E2	41	AU=ASAKAWA, MAKIO
E3	36	*AU=ASAKAWA, MAKOTO
E4	29	AU=ASAKAWA, MANABU
E5	3	AU=ASAKAWA, MASAHIKO
E6	4	AU=ASAKAWA, MASAJI
E7	1	AU=ASAKAWA, MASAKATA
E8	1	AU=ASAKAWA, MASANORI
E9	23	AU=ASAKAWA, MASARU
E10	1	AU=ASAKAWA, MASATO
E11	1	AU=ASAKAWA, MASATOSHI
E12	27	AU=ASAKAWA, MASAYUKI

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? e au=asakawa makoto

Ref	Items	Index-term
E1	79	*AU=ASAKAWA MAKOTO
E2	59	AU=ASAKAWA MANABU
E3	7	AU=ASAKAWA MARI
E4	2	AU=ASAKAWA MARIKO
E5	2	AU=ASAKAWA MASAHIKO
E6	12	AU=ASAKAWA MASAHIRO
E7	1	AU=ASAKAWA MASAKAZU
E8	1	AU=ASAKAWA MASAKI
E9	14	AU=ASAKAWA MASAKO
E10	28	AU=ASAKAWA MASAMI
E11	2	AU=ASAKAWA MASANORI
E12	3	AU=ASAKAWA MASAO

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